



7217/62588

Technology Center 2600

AUG 02 2004

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REMARKS

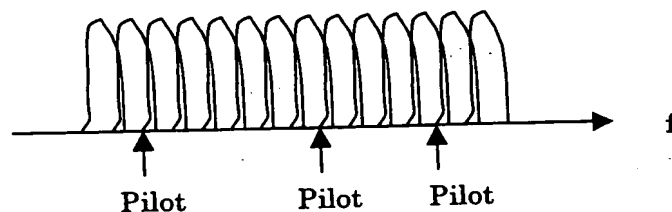
Claims 1-6, and 8-57 remain in the application with claims 1-6, 10, 12-14, 21, 23-25, 30, 40-43, 45, 51, 53, 56, and 57 having been amended hereby and claim 7 having been canceled hereby without prejudice or disclaimer.

Reconsideration is respectfully of the objection to the drawings.

Replacement sheets for Figs. 22-24 are provided hereby in which the legend "prior art" has been added.

Reconsideration is respectfully requested of the rejection of claims 1-7, 10-15, 20-27, 30-35, 40-45, and 49-55 under 35 USC 102(e), as being anticipated by Davies et al.

As explained in the present specification, a feature of the present invention is the technique to transmit data more efficiently by adaptively changing the number of insertions of pilot carriers in each modulation time. As seen in the below sketch, the number of pilot signals can be adaptively determined in order to increase the efficiency of the data transmission.



The claims have been amended hereby to emphasize the above-noted feature of the present invention relating to adaptively determining the number of insertions of the pilot signal in each

modulation time.

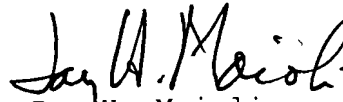
Davies et al. relates to a system for use in OFDM communications in which a synchronization of the receiver is based upon a comparison of difference signals in the communicated data. In opposition to what is taught in the present invention relating to adaptively changing the number of inventions of pilot carriers in each modulation time, Davies et al. clearly teaches, at column 2 lines 64 and 65, that scattered pilot signals are distributed throughout the symbol and their location typically changes from symbol to symbol. Note that it is not the number of insertions of pilot carriers that is changed but rather the location.

Therefore, it is respectfully submitted that Davies et al. does not anticipate the present invention, as recited in the amended claims because it fails to disclose or suggest adaptively determining and changing the number of pilot carriers that are inserted, as in the presently claimed invention.

The references cited as of interest have been reviewed and are not seen to show or suggest the present invention as recited in the amended claims.

Favorable reconsideration is earnestly solicited.

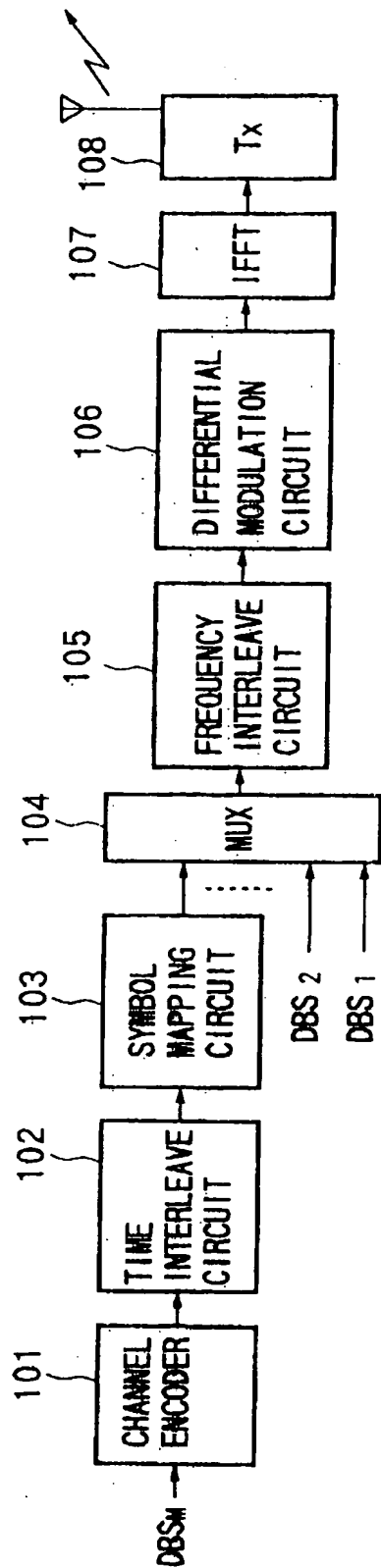
Respectfully submitted,  
COOPER & DUNHAM LLP

  
Jay H. Maioli  
Reg. No. 27, 213

JHM:tb



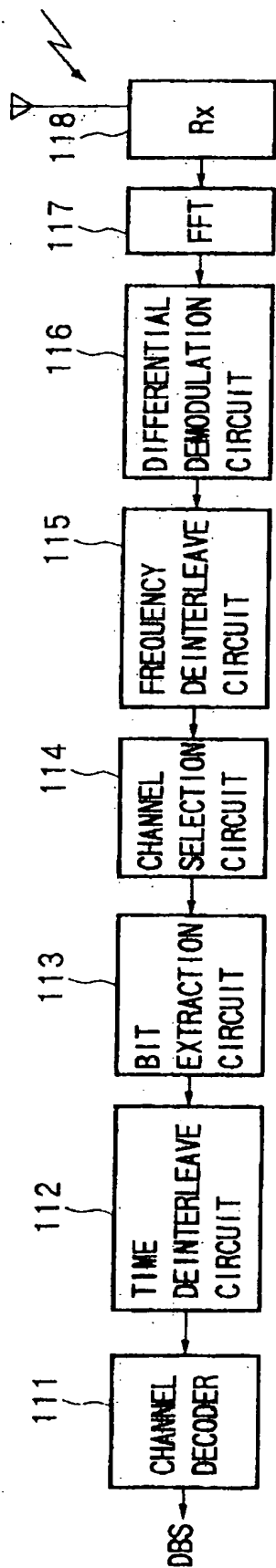
FIG.22 (Prior Art)





ANNOTATED SHEET SHOWING CHANGES

FIG.23 (Prior Art)





# ANNOTATED SHEET SHOWING CHANGES

FIG.24 (PRIOR ART)

